L15 ANSWER 2 OF 2 HCA COPYRIGHT 1995 ACS
73:41287 Synthesis and study of A2Sb5+B'O6 and A3Sb25+B'O9-type ternary oxides with perovskite structure. Fesenko, E. G.; Filip'ev, V. S.; Kupriyanov, M. F.; Devlikanova, R. U.; Zhavoronko, G. P.; Ochirov, V. A. (Rostov, Gos. Univ., Rostov, USSR). Izv. Akad. Nauk SSSR, Neorg. Mater., 6(4), 800-2 (Russian) 1970. CODEN: IVNMAW.
The existence of perovskites of complex compn. with Sb5+ ions occupying a part (.ltoreq.2/3) of the octahedral positions is confirmed. The Sb5+ ions in the perovskite structure can combine with other cations, which differ considerably in size and in valency. Perovskites with octahedral positions completely occupied by Sb5+ do not exist. Principles governing structure of the morphotropic series A2SbB'O6 and A3Sb2B'O9 (with variable B' ion) are analogous to the corresponding Ta and Nb series, where A is Ba, Ca, and Sr, and B' (M3+ or M2+) is Al, Ga, Cr, Fe, Mn, Sc, In, Lu, Yb, Tm, Er, Ho, Dy, Y, Tb, Bi, Gd, Nd, Sm, Pr, La or Ni, Mg, Co, Cu, Zn, Fe, Mn, Cd, Ca, Sr, Pb, resp.
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